

Set	Items	Description		
S1	32	(MATCH? OR COMPAR? OR CONTRAST?) (N10) ((BUY?(N3)SELL?)(N4-		
	) (	ORDER?))		
S2	15	S1 AND ALGORITH?		
\$3	17121	(BUY? OR SELL? OR TRADE? OR TRADING? OR PURCHAS?) (N10) (S-		
		ECURITY?(N2)INSTRUMENT? OR SECURITIES? OR STOCK? OR BOND? OR -		
		ONTRACT? OR COMMODITIE? OR INVESTMENT? (N2) INSTRUMENT? OR PRO-		
	DUCT?)			
S4	640	(CONDITIONAL? OR QUALIFYING? OR CONTINGEN?) (N4) (FACTOR? -		
	OF	R ORDER? OR TRANSACTION? OR PURCHAS?)		
<b>S</b> 5	. 599	(PRICE? OR COST? ? OR FEE? ?) (N5) (ALGORITHM?)		
\$6	15	S2 AND S3		
S7	(34)	S3(S)S4		
\$8	0	S7 (S)S5		
S9	0	S7 AND S5		
S10	0	S7 (N25) (ALGORITH?)		
S11	(12)	S2 (N50) S3		
S12	352	S3 (N5) (MATCH? OR COMPAR? OR CONTRAST?)		
<b>Š</b> 13	0	S12 (S) S4		
S14	(3)	S12 (S) ALGORITH?		
S15	$\sim 14$	S12 AND S4		
?				
		/ all Considered )		

Your Earls Ratents

```
Best Available Copy
```

```
/15:ABI/Inform(R) 1 -2000/Sep 18
           (c) 2000 Bell & Howell
         9:Business & Industry(R) Jul/1994-2000/Sep 15
           (c) 2000 Resp. DB Svcs.
  File 623:Business Week 1985-2000/Sep W1
           (c) 2000 The McGraw-Hill Companies Inc
 File 810:Business Wire 1986-1999/Feb 28
           (c) 1999 Business Wire
 File 275:Gale Group Computer DB(TM) 1983-2000/Sep 18
           (c) 2000 The Gale Group
 File 624:McGraw-Hill Publications 1985-2000/Sep 14
           (c) 2000 McGraw-Hill Co. Inc
 File 813:PR Newswire 1987-1999/Apr 30
           (c) 1999 PR Newswire Association Inc
 File 636:Gale Group Newsletter DB(TM) 1987-2000/Sep 18
          (c) 2000 The Gale Group
 File 621: Gale Group New Prod. Annou. (R) 1985-2000/Sep 18
          (c) 2000 The Gale Group
       16:Gale Group PROMT(R) 1990-2000/Sep 18
          (c) 2000 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2000/Sep 18
          (c) 2000 The Gale Group
       20:World Reporter 1997-2000/Sep 18
          (c) 2000 The Dialog Corporation plc
 Set
         Items
                 Description
 Sl
                 (MATCH? OR COMPAR? OR CONTRAST?) (N10) ((BUY?(N3)SELL?)(N4-
          1054
S2
            49
                 S1 AND ALGORITH?
S3
       3802259
                 (BUY? OR SELL? OR TRADE? OR TRADING? OR PURCHAS?) (N10) (S-
              ECURITY? (N2) INSTRUMENT? OR SECURITIES? OR STOCK? OR BOND? OR -
              CONTRACT? OR COMMODITIE? OR INVESTMENT? (N2) INSTRUMENT? OR PRO-
S4
        21612
                 (CONDITIONAL? OR QUALIFYING? OR CONTINGEN?) (N4) (FACTOR? -
             OR ORDER? OR TRANSACTION? OR PURCHAS?)
S5
         2978
                (PRICE? OR COST? ? OR FEE? ?) (N5) (ALGORITHM?)
S6
           49
                S2 AND S3
S7
            1
                S2 AND S4
S8
          585
                S3 AND S5
S9
                S3(S)S5
S10
            1
                S6 AND S4
S11
                S6 NOT PY=2000
S12
               RD (unique items)
S13
                S9 NOT S6
S14
                S13 NOT PY=2000
S15
                RD (unique items)
?
                 all considered
```

10/3,K/1 (Item 1 from le: 148)
DIALOG(R)File 148:Gale Gro Trade & Industry DB
(c) 2000 The Gale Group. All rts. reserv.

06726435 SUPPLIER NUMBER: 14568623 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Market integration and price execution for NYSE-listed securities. (New
York Stock Exchange) (includes appendices)

Lee, Charles M.C.

Journal of Finance, v48, n3, p1009(30)

July, 1993

ISSN: 0022-1082 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 10411 LINE COUNT: 00820

...ABSTRACT: orders differs systematically by location. In general, executions at the Cincinnati, Midwest, and New York stock exchanges are most favorable to trade initiators, while executions at the National Association of Security Dealers (NASD) are least favorable. These...

... Brokerage fees stir debate on IN THE EMERGING GLOBAL economy, the same security is often traded simultaneously at different physical locations. For such securities, market integration—the full and timely communication of intermarket information—is an issue of practical, academic, and regulatory importance.(1) In a fully integrated market, incoming buy (or sell) orders have an opportunity to be matched against the best available sell (or buy) orders across all locations. This intermarket matching process lowers the cost and time delay of trading and enhances the market's price...

...closely related issues of market integration and price execution for a sample of New York Stock Exchange (NYSE) listed securities. Most NYSE-listed securities also trade on at least one of five regional exchanges and in the Over-The-Counter (OTC...

...main proposition of this study is that the location of execution is price relevant for trades in NYSE-listed securities. The issue is timely, pertaining to the current regulatory debate surrounding payments for order flows...

...second test classifies all trades as buys or sells using the Lee and Ready (1991) algorithm and compares the trade price of off-Board buys (or sells) to adjacent NYSE buys...Consequently, the results pertain to execution costs for market orders, not limit or other price-contingent orders (unless these orders are executable upon receipt).(6) Further, trades that are not initiated by public orders (e...e., "cream skimming"). Unlike NYSE specialists, who must make a market for all NYSE-listed stocks, purchasers of order flows can target the more profitable "low end" business, which consists mainly of small trades in more liquid stocks. The NYSE specialist, finding profit margins reduced, may look to recover these losses by increasing...

...In fact, most regional exchanges as well as some NASD dealers have developed their own algorithms to improve the likelihood of inside-the-spread executions. The relative effectiveness of these algorithms in reducing execution costs for public market orders is an open empirical issue.

Few prior...is related to execution costs, this sample should represent the total population of NYSE-listed **securities**. Table I reports the distribution of **trades** for the 500 sample firms in each year. Just over 7.3 million trades were...

...example, in 1988 trades of 900 shares or less (a rough proxy for individual investor trades ) represent over 75 percent of all transactions in NYSE-listed securities on the Boston, Midwest, Pacific, and Philadelphia exchanges, as well as the NASD. On the...

...reasons. First, if regional dealers "skim the cream" by making markets only in more liquid stocks, regional trades should have a lower average liquidity premium than NYSE trades. Thus, lower execution costs may, in fact, be a product of the stock selection procedure followed by regional

dealers. Second, quoted an ffective spreads are...executi, , the NASE performance should improve lider these tests.

Lee and Ready (1991) propose an algorithm that classifies each trade as buyer or seller initiated. This algorithm (summarized in Appendix B) relies on the prevailing bid and ask prices as well as the prior price changes ("tick tests") in classifying trades. In this study, the algorithm provides a direct way of comparing the price of buys (or sells) executed in a...

...trade prices on market buys and higher average trade prices on market sells. The same algorithm is applied to trades from all exchanges, so even though trade misclassifications may introduce noise...control for cross-sectional differences across the sample firms. The unit of analysis is individual trades, so that securities with greater volume receive greater proportional weight. This approach is reasonable given the research focus on price execution per trade. However, since the extent of off-Board trading varies widely across securities, the results may be due to a small proportion of the sample firms. To examine...

...execution and price performance of different market centers. The results show that for NYSE-listed securities the price obtained on similar adjacent trades can differ by location of execution. In particular, the results ...probes the other for "hidden liquidity" not revealed in the intermarket quote. The price improvement algorithm recently implemented by a prominent NASD member firm, Madoff Investments, is a prime example of ...time of receipt.

In addition, during 1990, the Midwest exchange introduced a new price improvement algorithm that offers a one-eighth improvement on all trades if its execution at the intermarket...

...instituted an automated execution system dubbed MISSION. For orders of 300 shares or greater, in **stocks trading** at one-fourth or more spread, MISSION adjusts the Madoff ITS bid or ask to...

... Appendix B: Inferring Trade Direction

The direction of individual trades is inferred by the following algorithm developed in Lee and Ready (1991). The only modification is that Lee and Ready use...Madoff Investment's MISSION system, implemented in the latter part of 1990. These price improvement algorithms may improve NASD and regional test results for future studies using post-1989 data.

19 T4 is classified as a buy in the Lee and Ready (1991) algorithm because it is executed at the ask price. Note that it is also a buy...

12/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2000 Bell & Howell. All rts. reserv.

01964810 47414462
Atrading primer
Pirrong Craig
Regulation v22n4 PP: 24-25 1999
ISSN: 0147-0590 JRNL CODE: RGO
WORD COUNT: 1094

ABSTRACT: A discussion of the ways in which stocks are traded in the US is presented. Methods discussed include floor trading, over-the-counter trading and...

TEXT: STOCKS ARE TRADED IN SEVERAL ways in U.S. markets. Some companies choose to list their stocks for trading on traditional exchanges. The New York Stock Exchange (NYSE) is the most important listing exchange, but listed stocks are also traded on the American Stock Exchange (AMEX) and regional exchanges in Chicago, Philadelphia, Boston, San Francisco, and Los Angeles. Regional exchanges trade stocks that are listed on other markets as well as their own listings. Stocks that are not listed on an exchange (including many technology stocks, such as Microsoft) are traded in the over-the-counter (OTC) market.

...to provide liquidity will e it's most needed, Madden sayling after the most thinly traded stocks. Then offer to cross orders much less frequently, say once a week. "This one is an incredibly efficient way to trade illiquid stocks," says Madden. "In waiting, we can get much more liquidity, and we have the ability...

...12,000 trades per day. Yet because Traversi's customers concentrate their investments in technology stocks, Traversi thinks an E\*Trade bulletin board could potentially attain match rates at unheard-of levels: 25% to 50%.

Traversi says there are 1,200 to 1,400 stocks that are very popular with his clients. He compares E\*Trade 's situation to that of his previous employer, Montgomery Securities, which, due to similar sector concentrations, regularly hit an institutional crossing rate of 37% to...

...trading systems, though relatively easy to build, contain some glaring inefficiencies. "The whole electronic book algorithm has never worked," says Christopher Keith, former chief technology officer for the New York Stock...

...As a result, Wunsch is making an offer to discount brokerages: allow your investors to trade with institutions on the Arizona Stock Exchange. Investors with accounts at participating brokerages would use the Internet to input their orders...collection mechanism to an Internet auction that is very visible." After the market close, an algorithm will find the highest price that will clear all of the "matched" trades. The orders...

...far heard "nothing negative" about his plans for a crossing system.

Just after launching Wit-Trade, Klein, an ex-securities lawyer himself, was treated to a conference call with the SEC -- 11 lawyers strong. Ten... Nasdaq-listed stock has 10 market makers, according to the exchange, while the most heavily traded stocks have more than 60. Thinly traded issues, and market makers who support them, will be more dramatically affected.

Off the record...

12/3,K/12 (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0896260 BW1247

STATE STREET BSE: State Street and the Boston Stock Exchange Announce Exclusive Agreement On State Street's Bond Connect in the United States

August 19, 1998

Byline: Business Editors

...securities, developed with partners Bridge Information Systems and Net Exchange and introduced in May 1998.

Bond Connect - which matches buy and sell orders electronically, using a complex algorithm - addresses limitations in the traditional trading environment by offering investors the ability to formulate orders...

... specific point in time.

The BSE will be the exclusive U.S. exchange participant in Bond Connect, initially providing computer system administration for the electronic trading of U.S. Corporate Debt, U.S. Government Debt, Agencies, Mortgage-Backed Securities, and U...

17/3,K/1 (Item 1 from ile: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2000 The Gale Group. All rts. reserv.

01253302 SUPPLIER NUMBER: 06915085 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The house of games. (New York stock exchange) (includes related articles on program trading, lessons of October, three-minute NYSE event, high technology access, and specialist trading)

Kull, David; Keough, Lee

Computer Decisions, v20, n8, p43(11)

Aug, 1988

ISSN: 0898-1825 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4875 LINE COUNT: 00379

... the clearinghouse procedure, traders continuously enter orders, and, periodically, the computer generates a price that matches the greatest number of buy and sell orders. Those orders are then executed at the clearing price, as are all orders at better prices.

Some...would clear all securities in the market simultaneously. This would allow traders to enter sophisticated orders contingent on market conditions—for example, "if the price of Ford stock rises above \$40 and...

...19? Mendelson believes traders would not have been afraid to enter the market because their orders could have been made contingent on an optimal scenario. What actually happened, of course, was that a lack of information...

17/3,K/2 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2000 The Gale Group. All rts. reserv.

01789547 Supplier Number: 42996517 (USE FORMAT 7 FOR FULLTEXT)

AUTOMATED TRADING: INSTINET'S OMS OFFERS A CONTINUOUS CROSS AT GRANTHAM

MAYO

Investment Management Technology, v1, n17, pN/A

May 15, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 979

... in test mode at several buy-side institutions, sources say.

Systems like Morgan Stanley's Matchplus allow buyers and sellers to enter orders anonymously: these orders never appear on any screen--only the counterparties know when an order...

...index it is meant to follow.

Float On

Users of OMS can also place portfolio "contingency " orders --floating limit orders --that move with the market and take advantage of market fluctuations to automatically turn on...

17/3,K/3 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2000 The Gale Group. All rts. reserv.

10294466 SUPPLIER NUMBER: 20860264 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Static hedging of exotic options. (includes appendix)

Carr, Peter; Ellis, Katrina; Gupta, Vishal

Journal of Finance, v53, n3, p1165(26)

June, 1998

ISSN: 0022-1082 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 9137 LINE COUNT: 00741

... continuously monitoring the underlying and trading with every significant price change, the hedger can place contingent buy and sell orders with start/stop prices at the barriers. Second, when compared

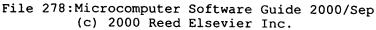


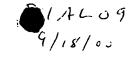
77:Conference Paper dex 1973-2000/Jul (c) 2000 Cambridg Sci Abs 35:Dissertation Abstracts Online 1861-2000/Jul File (c) 2000 UMI File 583: Gale Group Globalbase (TM) 1986-2000/Sep 15 (c) 2000 The Gale Group 2:INSPEC 1969-2000/Sep W3 File (c) 2000 Institution of Electrical Engineers File 65:Inside Conferences 1993-2000/Sep W3 (c) 2000 BLDSC all rts. reserv. File 233: Internet & Personal Comp. Abs. 1981-2000/Sep (c) 2000 Info. Today Inc. 99:Wilson Appl. Sci & Tech Abs 1983-2000/Aug File (c) 2000 The HW Wilson Co. Items Set Description (MATCH? OR COMPAR? OR CONTRAST?) (N10) ((BUY?(N3)SELL?)(N4-S1 19 ) (ORDER?)) S2 0 S1 AND ALGORITH? S3 74044 (BUY? OR SELL? OR TRADE? OR TRADING? OR PURCHAS?) (N10) (S-ECURITY? (N2) INSTRUMENT? OR SECURITIES? OR STOCK? OR BOND? OR -CONTRACT? OR COMMODITIE? OR INVESTMENT? (N2) INSTRUMENT? OR PRO-DUCT?) 1290 S4 (CONDITIONAL? OR QUALIFYING? OR CONTINGEN?) (N4) (FACTOR? -OR ORDER? OR TRANSACTION? OR PURCHAS?) **S**5 5305 (PRICE? OR COST? ? OR FEE? ?) (N5) (ALGORITHM?) S6 S4 AND (BUY?(N3)SELL?) **S7** 16 S3 AND S5 **S8** S3 AND S4 44 S8 AND ALGORITH? S9 S10 S8 AND S1 S11 RD S6 (unique items) **S12** RD S7 (unique items)

(all Considured)

?

Bibliographic files File 256:SoftBase:Reviews,C SoftBase: Reviews, Canies&Prods. 85-2000/Aug (c) 2000 Info.Sources Inc





Set	Items Description
S1	3 (MATCH? OR COMPAR? OR CONTRAST?) (N10) ((BUY?(N3)SELL?)(N4-
	)(ORDER?))
S2	0 S1 AND ALGORITH?
s3	2933 (BUY? OR SELL? OR TRADE? OR TRADING? OR PURCHAS?) (N10) (S-
	ECURITY? (N2) INSTRUMENT? OR SECURITIES? OR STOCK? OR BOND? OR -
	CONTRACT? OR COMMODITIE? OR INVESTMENT? (N2) INSTRUMENT? OR PRO-
	DUCT?)
S4	6 (CONDITIONAL? OR QUALIFYING? OR CONTINGEN?) (N4) (FACTOR? -
	OR ORDER? OR TRANSACTION? OR PURCHAS?)
S5	17 (PRICE? OR COST? ? OR FEE? ?) (N5) (ALGORITHM?)
S6	0_ S3 AND (S4 OR S5)
S7	4 S4 AND (STOCK? OR PRODUCT? OR SECURITY?)
?	C - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
-	`

( all Considered

Software

**Best Available Copy** ALOG 9/18/00 File 348: European Patents 78-2000/Sep W02 (c) 2000 European Patent Office File 349:PCT Full ext 1983-2000/UB=20000914, UT=20000831 (c) 2000 WIPO/MicroPat Set Item/s escription MATCH? OR COMPAR? OR CONTRAST?) (N10) ((BUY?(N3)SELL?)(N4-S1 ) (**9**RDER?)) S2 13 S1 AND ALGORITH? (BUY? OR SELL? OR TRADE? OR TRADING? OR PURCHAS?) (N10) (S-S3 17121 ECURITY? (N2) INSTRUMENT? OR SECURITIES? OR STOCK? OR BOND? OR -CONTRACT? OR COMMODITIE? OR INVESTMENT? (N2) INSTRUMENT? OR PRO-DUCT?) (CONDITIONAL? OR QUALIFYING? OR CONTINGEN?) (N4) (FACTOR? -S4 OR ORDER? OR TRANSACTION? OR PURCHAS?) S5 (PRICE? OR COST? ? OR FEE? ?) (N5) (ALGORITHM?) 599 S6 15 S2 AND S3 S7 S3(S)S4 S8 S7 (S)S5 S9 S7 AND S5 0 S10 S7 (N25) (ALGORITH?) S11 S2(N50)S3 S12 S3 (N5) (MATCH? OR COMPAR? OR CONTRAST?) S13 S12 (S) S4 S14 S12 (S) ALGORITH? S15 S12 AND S4 ?

Point Ouropean Garents